Therapeutics Advisory Group

Improving lives together Norfolk and Waveney Integrated Care System

NORFOLK AND WAVENEY STP THERAPEUTICS ADVISORY GROUP (TAG)

SHARED CARE AGREEMENT FRAMEWORK

Shared care guidelines - Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at least 6 years old

Monitoring level 3 - Prescribe the drug and perform significant monitoring including measurements such as height, weight, blood pressure and ECG.

Generic and Proprietary/Brand Name

This shared care agreement covers the prescribing of the following stimulants: 1) Methylphenidate:

Prescribe by <u>brand name</u>, or by manufacturer name if generic, for modified-release preparations. Refer to appendix 2 for comparison of modified-release methylphenidate products.

- a) Methylphenidate **immediate release** tablets; Generic, Ritalin®, Medikinet®, Tranquilyn®.
- Prescribe generically for best value.
- b) Methylphenidate **modified-release tablets**; Affenid XL®, Delmosart®, Matoride XL®, Xaggitin XL®, Xenidate XL®, Concerta XL®.
- Preferred best value brands include: Affenid XL®, Xaggitin XL®, Xenidate XL®, Delmosart®, Matoride XL®.
- c) Methylphenidate modified-release <u>capsules</u>; Equasym XL®, Medikinet XL®, Meflynate XL®, Metyrol XL®.
- 2) Lisdexamfetamine:

Lisdexamfetamine is a prodrug of dexamfetamine; it has an extended-release profile and is associated with a lower abuse potential.

- Lisdexamfetamine capsules; Generic, Elvanse®.
- 3) Dexamfetamine:
- Dexamfetamine immediate release tablets; Generic, Amfexa®.

Indications for shared care

All medication for ADHD should only be initiated by a specialist (registered healthcare professional) with training and expertise in diagnosing and managing ADHD.

Stimulants are licensed for the treatment of ADHD in children **aged 6 years of age and over** as part of a comprehensive treatment programme where remedial measures alone prove insufficient. Although NICE guidance (NG87)¹ recommends that children may treated from age 5 years, the licensed age range stands regarding the scope of this shared care prescribing agreement. This is a TAG recommendation since local GPs may not currently refer such young children to the specialist service, and medications would be off-label.

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Shared Care Agreement – Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at least 6 years old

Contact for the TAG: jennifer.carroll@nhs.net

As per NICE guidance NG87¹ **Methylphenidate** should be offered as the **first line** pharmacological treatment for children and young people with ADHD.

Consider switching to Lisdexamfetamine if after a 6-week trial of methylphenidate (at an adequate dose) there has not been sufficient benefit observed, in terms of reduced ADHD symptoms and associated impairment.

Dexamfetamine can be considered for children & young people whose ADHD symptoms are responding to Lisdexamfetamine but who cannot tolerate the longer effect profile of the drug. Please note Dexamfetamine is only licensed to treat ADHD in children and young people aged 6 to 17 years when response to methylphenidate is clinically inadequate.

 Prescribing responsibilities: Initiation, dose titration and stabilisation on medication for at least two consecutive consultations with no change in dose. Specialist monitoring: Monitoring at baseline, during initiation & following dose and evidence of benefit is stated. To prescribe treatment from the date specified by specialist. Specialist monitoring: Height and weight should be monitored and plotted on a growth chart. Auscultation of the heart and monitoring of heart rate and blood pressure; to be compared with the normal range for age before and after each dose change. Additional monitoring: Physical and CNS side effects during initiation and dose titration. Monitor for psychiatric symptoms / disorders. Monitor for psychiatric symptoms / disorders. Monitor for the rare possibility of liver problems. Annual review: Annual review: Areview with the specialist is required at least once a year to discuss whether medication should be continued. As the young person can 'grow out' of ADHD (secondary to neuro-developmental maturation or changes in circumstances). Patient Information 	Summary of Specialist Prescribing and Monitoring Responsibilities	Summary of GP / Community Team - Primary Care Prescribing and Monitoring Responsibilities				
	 Initiation, dose titration and stabilisation on medication for at least two consecutive consultations with no change in dose. Specialist monitoring: Monitoring at baseline, during initiation & following dose adjustments is the responsibility of the specialist: Height and weight should be monitored and plotted on a growth chart. Auscultation of the heart and monitoring of heart rate and blood pressure; to be compared with the normal range for age before and after each dose change. Additional monitoring: Physical and CNS side effects during initiation and dose titration. Monitor for psychiatric symptoms / disorders. Monitor levels of agitation, irritability and/or the occurrence of self-harming behavior /suicidal thoughts. Monitor for the rare possibility of liver problems. Annual review: Areview with the specialist is required at least once a year to discuss whether medication should be continued. As the young person can 'grow out' of ADHD (secondary to neuro-developmental 	 To accept shared care when patient is on a 'stable' dose and evidence of benefit is stated. To prescribe treatment from the date specified by specialist. Monitoring responsibilities: Measure height at least every 6 months in children and young people taking medication for ADHD. Measure weight at least every 3 months in children aged 10 years and under For children <u>over</u> 10 years and young people measure weight at 3 and 6 months after starting treatment, and then at least 6 monthly thereafter. Height and weight to be plotted on growth chart. If concerns arise, or any significant changes from baseline, this should be discussed with the specialist; please see box 'When is further assessment required? <u>RCPCH growth charts</u> for general advice. Monitor heart rate and blood pressure and compare with the normal range for age every 6 months. 				
Families will be provided with relevant patient information						

Families will be provided with relevant patient information.

For additional medicines information, including patient information leaflets, please see:

http://www.choiceandmedication.org/nsft/.

Specialist Contact Details

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Shared Care Agreement – Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at least 6 years old.

Contact for the TAG: jennifer.carroll@nhs.net

V10.2 For review June 2026

Commented [CN(NAWI21]: Taken from RCPCH: When is further assessment required? If any of the following: • Where weight or height or BMI is below the 0.4th centile, unless already fully investigated at an earlier age. • If the height centile is more than 3 centile spaces below the midparental centile. • A drop in height centile position of more than 2 centile spaces, as long as measurement error has been excluded. • Smaller centile falls or discrepancies between child's and mid-parental centile, if seen in combination, or if associated with possible underlying disease. • If there are any other concerns about the child's growth. Taken from RCPH growth chart.

- Norwich Community Health and Care NHS Trust, Neurodevelopmental Service, Tel 01553 668712 ٠
- The James Paget University Hospital, Newberry Clinic, Tel 01493 442322 •
- Children's Community Medical Team, West Suffolk NHS Foundation Trust, Tel 01284 741700
- Autism Diagnostic Service Suffolk, Tel 01449 745389 (aged over 11 years) Child and Adolescent Mental Health Service (CAMHS); ٠ •
- Central and West Norfolk Tel 0300 790 0371
 East Norfolk, Great Yarmouth and Waveney Telephone 0300 123 1882

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Shared Care Agreement – Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at least 6 years old.

Contact for the TAG: jennifer.carroll@nhs.net

GENERAL PRINCIPLES FOR SHARED CARE PRESCRIBING

- Shared Care is only appropriate if it provides the optimum solution for the patient.
- GPs are invited to participate. If GPs are not confident to undertake these roles, they are
 under no obligation to do so. In such an event, the total clinical responsibility for the patient for
 the diagnosed condition remains with the specialist.
- If a specialist asks the GP to prescribe this drug, the GP should reply to this request as soon as practicable if they are unwilling to do so.
- Prescribing responsibility will only be transferred when it is agreed by the consultant and the patient's GP and when the patient's condition is stable or predictable.
- Safe prescribing must be accompanied by effective monitoring.
- The doctor who prescribes the medication legally assumes clinical responsibility for the drug and the consequences of its use.

Background to Treatment

Stimulants are licensed for the treatment of ADHD in children **aged 6 years of age and over** as part of a comprehensive treatment programme where remedial measures alone prove insufficient.

As per NICE guidance (NG87)¹ **Methylphenidate** should be offered as the **first line** pharmacological treatment for children and young people with ADHD.

Consider switching to Lisdexamfetamine if after a 6-week trial of methylphenidate (at an adequate dose) there has not been sufficient benefit observed, in terms of reduced ADHD symptoms and associated impairment.

Dexamfetamine can be considered for children & young people whose ADHD symptoms are responding to Lisdexamfetamine but who cannot tolerate the longer effect profile of the drug. Please note Dexamfetamine is only licensed to treat ADHD in children and young people aged 6 to 17 years when response to methylphenidate is clinically inadequate.

Licensed use and agreed local off-label use

Stimulants are licensed for the treatment of ADHD in children **aged 6 years of age and over** as part of a comprehensive treatment programme where remedial measures alone prove insufficient.

Please refer to individual manufacturers' Summary of Product Characteristics (SPC) for full information on each product - <u>https://www.medicines.org.uk/emc/</u>

Criteria for Patient Selection

The patient's ADHD symptoms of hyperactivity/ impulsivity and/or inattention:

- meet the diagnostic criteria in DSM-5 or ICD-11 and
- cause at least moderate psychological, social and/or educational or occupational impairment based on interview and/or direct observation in multiple settings and
- are pervasive, occurring in 2 or more important settings including social, familial, educational and/or occupational settings.

Children should only be offered medication if all of following criteria are met:

- a baseline assessment has been carried out.
- they and their family/ and carers have discussed information about ADHD.
- patient has completed psychoeducation and environmental modifications have
- been implemented and reviewed.

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Shared Care Agreement – Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at least 6 years old

Contact for the TAG: jennifer.carroll@nhs.net

 ADHD symptoms are still causing a persistent significant impairment in at least one domain.

Form and strength of preparation

This shared care agreement covers the prescribing of the following stimulants: 1) Methylphenidate²:

Prescribe by <u>brand name</u>, or by manufacturer name if generic, for modified release preparations.

Refer to appendix 2 for comparison of modified-release methylphenidate products.

- a) Methylphenidate **immediate release** tablets; Generic, Ritalin®, Medikinet®, Tranquilyn®
- Prescribe generically for best value.

b) Methylphenidate **modified-release tablets**; Affenid XL®*, Delmosart®, Matoride XL®, Xaggitin XL®, Xenidate XL®, Concerta XL®.

- Preferred best value brands include: Affenid XL®, Xaggitin XL®, Xenidate XL®, Delmosart®, Matoride XL®.
- Affenid XL®*, Delmosart®, Matoride XL®, Xaggitin XL®, Xenidate XL® are bioequivalent to Concerta XL® tablets. Concerta XL 18mg once daily is equivalent to a total daily dose of 15mg Immediate Release Methylphenidate.

c) Methylphenidate **modified-release** <u>capsules</u>; Equasym XL®, Medikinet XL®, Meflynate XL®, Metyrol XL®.

2) Lisdexamfetamine²:

Lisdexamfetamine is a prodrug of dexamfetamine; it has an extended-release profile and is associated with a lower abuse potential.

• Lisdexamfetamine capsules; Generic, Elvanse®

3) Dexamfetamine²:

• Dexamfetamine immediate release tablets; Generic, Amfexa®

Side Effects (Please refer to the <u>BNFC</u> and individual products <u>SPC</u>)

Side effects are mainly transient. Gastro-intestinal, and Central nervous system: insomnia, nervousness, headache, appetite loss, gastrointestinal discomfort, vomiting, nausea, somnolence, and dizziness. Options to reduce these include taking medication with or after food, reducing the dose or taking later in the day.

May affect performance of skilled tasks (driving); effects of alcohol unpredictable.

Drug Interactions (Please refer to the <u>BNFC</u> and individual products <u>SPC</u>)

Stimulant medication interacts with several over-the-counter medicines containing pseudoephedrine. Methylphenidate also interacts with a number of prescription only medicines, necessitating extra care. These effects are mainly due to the sympathomimetic properties of stimulant medications. For children & young people these issues are unlikely to be a frequent problem (hypertension treatment, anaesthetics, anticoagulation), however please check for interactions with other medication using the <u>BNF for Children</u>.

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Shared Care Agreement – Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at least 6 years old.

Contact for the TAG: jennifer.carroll@nhs.net

Cautions and Contraindications (For the most up to date information please refer to the <u>BNFC</u> and individual products <u>SPC</u>)

Methylphenidate:

- **Cautions:** Agitation; alcohol dependence; anxiety; drug dependence; epilepsy (discontinue if increased seizure frequency); family history of Tourette syndrome; susceptibility to angle-closure glaucoma; tics. For Concerta® XL, Delmosart® prolonged release tablets and Xaggitin® XL caution with Dysphagia.
- Patients with hypertension, tachycardia, and cardiovascular or cerebrovascular disease: pulse and BP should be measured more frequently than 6 monthly whilst on therapy.
- Growth rates (weight and height) should also be monitored as precaution. Stimulant medication may cause small growth retardation with long-term use.
- History of drug or alcohol abuse (also consider patients wider network): consider alternative non-stimulant treatments.
- Hyperthyroidism, glaucoma,
- Pregnancy or breastfeeding.
- Epilepsy not normally a major problem but care should be taken as there is the possibility of further lowering the seizure threshold.
- **Contra-indications**: Anorexia nervosa; arrhythmias; cardiomyopathy; cardiovascular disease; cerebrovascular disorders; heart failure; hyperthyroidism; mania; phaeochromocytoma; psychosis; severe depression; severe hypertension; structural cardiac abnormalities; suicidal tendencies; uncontrolled bipolar disorder; vasculitis

Lisdexamfetamine:

- **Cautions**: Bipolar disorder; history of cardiovascular disease; history of substance abuse; may lower seizure threshold (discontinue if seizures occur); psychotic disorders; susceptibility to angle-closure glaucoma; tics; Tourette syndrome
- Manufacturer advises caution in patients with underlying conditions that might be compromised by increases in blood pressure or heart rate.
- In severe renal impairment manufacturer advises a maximum dose of 50 mg daily.
- Hepatic insufficiency (due to lack of data).
- Pregnancy or breast-feeding.
- **Contra-indications**: Advanced arteriosclerosis; agitated states; hyperthyroidism; moderate hypertension; severe hypertension; symptomatic cardiovascular disease.

Dexamfetamine:

- Cautions: History of epilepsy (discontinue if seizures occur); mild hypertension; susceptibility to angle-closure glaucoma; tics (discontinue use if tics occur); Tourette syndrome; growth restriction in children.
- Breast-feeding; dexamfetamine is excreted in human milk.
- Monitor height and weight as growth restriction may occur during prolonged therapy (drug-free periods may allow catch-up in growth but withdraw slowly to avoid inducing depression or renewed hyperactivity).
- Renal and hepatic insufficiency (due to lack of data).
- **Contra-indications**: Advanced arteriosclerosis; anorexia; arrhythmias (lifethreatening); cardiomyopathies; cardiovascular disease; cerebrovascular disorders; heart failure; history of alcohol abuse; history of drug abuse; hyperexcitability; hyperthyroidism; moderate hypertension; psychiatric disorders (disorders include severe depression, schizophrenia, borderline personality disorder and uncontrolled bipolar disorder); psychosis; severe hypertension; structural cardiac abnormalities; suicidal tendencies.
- Pregnancy

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 Co-morbidity with psychiatric disorders is common in ADHD. Manufacturer advises if new psychiatric symptoms develop or exacerbation of psychiatric disorders occurs, continue use only if benefits outweigh risks.

Height & weight loss:

NICE guidance (NG87)¹ recommends that if weight loss is a clinical concern to consider the following strategies:

- taking medication either with or after food, rather than before meals
- taking additional meals or snacks early in the morning or late in the evening when stimulant effects have worn off.
- obtaining dietary advice
- consuming high-calorie foods of good nutritional value
- taking a planned break from treatment GP to discuss with specialist.
- changing medication any changes to medication would need to be made by the specialist.

NICE (NG87)¹ also states if a child or young person's height over time is significantly affected by medication (that is, they have not met the height expected for their age), consider a planned break in treatment over school holidays to allow 'catch-up' growth. GP to discuss with specialist.

Initiation of therapy

All medication for ADHD should only be initiated by a specialist (who is a registered healthcare professional) with training and expertise in diagnosing and managing ADHD. Registered healthcare professionals initiating medication for ADHD should:

- be familiar with the pharmacokinetic profiles of all the short and long-acting preparations available for ADHD.
- ensure that treatment is tailored effectively to the individual needs of the child or young person.
- take account of variations in bioavailability or pharmacokinetic profiles of different preparations to avoid reduced effect or excessive adverse effects.

Initial dose and method of administration and supply

The specialist will be responsible for initiation, dose titration and stabilisation on medication.

Methylphenidate:

As per NICE guidance (NG87)¹ methylphenidate should be offered as the first line pharmacological treatment for children and young people with ADHD. Modified-release preparations of methylphenidate are preferred because of their pharmacokinetic profile, convenience, improved adherence, reduced risk of drug diversion and the lack of need to be taken to school. Immediate-release preparations can be given when more flexible dosing regimens are required, or during initial dose titration. For younger children starting with immediate release methylphenidate may be more appropriate. A combination of a modified-release and immediate-release preparation taken at different times of the day can be used to extend the duration of effect. The magnitude, duration of effect, and side-effects of stimulants vary between patients.² Dose by mouth using **immediate release** medicines²:

Child 6–17 years

Initially 5 mg 1–2 times a day, increased in steps of 5–10 mg daily if required, at weekly intervals, increased if necessary up to 60 mg daily in 2–3 divided doses, increased if

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necessary up to 2.1 mg/kg daily in 2-3 divided doses. The licensed maximum dose is 60 mg daily in 2-3 doses, higher dose (up to a maximum of 90 mg daily) under the direction of a specialist, discontinue if no response after 1 month. If effect wears off in evening (with rebound hyperactivity) a dose at bedtime may be appropriate (establish need with trial bedtime dose).

Treatment may be started using a modified-release preparation. When switching from immediate-release preparations to modified-release preparations-consult product literature.

Please also refer to Appendix 2.

Lisdexamfetamine:

Consider switching to lisdexamfetamine if after a 6-week trial of methylphenidate (at an adequate dose) there has not been sufficient benefit observed, in terms of reduced ADHD symptoms and associated impairment¹.

Dose by mouth²: Child 6-17 years

Initially 30 mg once daily, alternatively initially 20 mg once daily, increased in steps of 10-20 mg every week if required, dose to be taken in the morning, discontinue if response insufficient after 1 month. Maximum 70 mg per day.

Dexamfetamine:

Dexamfetamine can be considered for children & young people whose ADHD symptoms are responding to lisdexamfetamine, but who cannot tolerate the longer effect profile of the drug¹. Please note dexamfetamine is only licensed to treat ADHD in children and young people aged 6 to 17 years when response to methylphenidate is clinically inadequate.

Dose by mouth2:

Child 6-17 years

Initially 2.5 mg 2-3 times a day, increased in steps of 5 mg once weekly if required, usual maximum 1 mg/kg daily, up to 20 mg daily (40 mg daily has been required in some children); maintenance dose to be given in 2-4 divided doses.

Maintenance Dose and Administration

See above.

Duration of therapy / How the treatment will be reviewed and if appropriate, stopped

To establish continued need for medication a healthcare professional with training and expertise in managing ADHD should review the ADHD medication at least once a year. They should discuss with the person with ADHD (and their families and carers as appropriate) whether medication should be continued. The review should include a comprehensive assessment of the:

- preference of the child or young person with ADHD (and their family or carers as appropriate)
- benefits, including how well the current treatment is working throughout the day
- adverse effects
- clinical need and whether medication has been optimised
- impact on education and employment
- effects of missed doses, planned dose reductions and periods of no treatment •
- effect of medication on existing or new mental health, physical health or
- neurodevelopmental conditions

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 need for support and type of support (for example, psychological, educational, social) if medication has been optimised but ADHD symptoms continue to cause a significant impairment.

Patients with ADHD should be encouraged to discuss any preferences to stop or change medication and to be involved in any decisions about stopping treatments. Trials of treatment-free periods, or dose reductions should be considered where appropriate and be managed by the specialist. If the decision is made to continue medication, the reasons for this should be documented. Drug treatment should only be continued for as long as it is clinically effective.

Children & young people should be monitored for effectiveness of treatment and sideeffects, in addition to changes in sleep pattern, and the potential for stimulant diversion or misuse. If the child develops new, or has worsening of existing seizures, review drug treatment and stop any drug that might be contributing to the seizures; treatment can be cautiously reintroduced if it is unlikely to be the cause. Monitor children for the development of tics associated with stimulant use. If tics are stimulant related, consider a dose reduction, stopping treatment, or changing to a non-stimulant drug. If there is worsening of behaviour, consider adjusting drug treatment and reviewing the diagnosis. When conducting treatment reviews the specialist will send a written summary of the consultation to the patient's GP.

The general tendency is for a very significant reduction in the need for continuation of pharmacotherapy towards the end of puberty.

Initial monitoring / baseline assessment - by specialist

Monitoring at baseline and during initiation is the responsibility of the specialist.

Baseline assessment:1

- Review to confirm the patient meets the criteria for ADHD and requires pharmacological treatment.
- Review of patient's mental health and social circumstances, including:
 - presence of coexisting mental health and neurodevelopmental conditions
 - current educational or employment circumstances
 - risk assessment for substance misuse and drug diversion
 - > care needs
- Review of physical health, including;
 - medical history, taking into account conditions that may be contraindications for specific medicines.
 - current medication
 - height and weight (measured and recorded against the normal range for age, height and sex)
 - auscultation of the heart, baseline pulse and blood pressure (measured with an appropriately sized cuff and compared with the normal range for age)
 - > a cardiovascular assessment.

Monitoring during dose titration:1

During the titration phase, ADHD symptoms, impairment and adverse effects should be recorded at baseline and **at each dose change** on standard scales by parents and teachers, and progress reviewed regularly (for example, by weekly telephone contact) with the specialist.

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Height and weight should be monitored and plotted on a growth chart.

Monitor **heart rate** and **blood pressure** and compare with the normal range for age before and after each dose change. Reduce dose and refer to a paediatric hypertension specialist if a patient taking ADHD medication has;

- > that have sustained resting tachycardia (more than 120 beats per minute),
- > arrhythmia
- or systolic blood pressure greater than the 95th percentile (or a clinically significant increase) measured on 2 occasions.

Additional monitoring:

- Monitor for psychiatric symptoms / disorders.
- Monitor levels of agitation, irritability and/or the occurrence of self-harming behaviour/suicidal thoughts.
- · Monitor for the rare possibility of liver problems.
- Physical and CNS side effects during initiation and dose titration.

Annual review:1

A review with the specialist is required at least once a year to discuss whether medication should be continued. As the young person can 'grow out' of ADHD (secondary to neuro-developmental maturation or changes in circumstances). This review should include a comprehensive assessment of:

- preference of the child or young person with ADHD (and their family or carers as appropriate).
- benefits, including how well the current treatment is working throughout the day.
 adverse effects
- adverse effects
 clinical need and whether medication has been optimised.
- impact on education and employment.
- effects of missed doses, planned dose reductions and periods of no treatment.
- effect of medication on existing or new mental health, physical health or neurodevelopmental conditions.
- need for support and type of support (for example, psychological, educational, social) if medication has been optimised but ADHD symptoms continue to cause a significant impairment.

Specialist monitoring responsibilities

See above - Initial monitoring / baseline assessment.

GP / Community Team or other Primary Care monitoring responsibilities

Primary care monitoring:1

- Measure **height** at least **every 6 months** in children and young people taking medication for ADHD.
- Measure weight at least every 3 months in children aged 10 years and <u>under</u>
 For children <u>over</u> 10 years and young people measure weight at 3 and 6 months after starting treatment, and then at least 6 monthly thereafter.
- Height and weight to be plotted on <u>growth chart</u>. If concerns arise, or any significant changes from baseline, this should be discussed with the specialist; please see box 'When is further assessment required?' <u>RCPCH growth charts</u> for general advice.
- Monitor heart rate and blood pressure and compare with the normal range for age every 6 months.

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Shared Care Agreement – Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at least 6 years old.

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•					
Сс	onsultant / Specialist prescribing responsibilities				
Th at Tra an	e specialist is responsible for initiation, dose titration and stabilisation on medication for least two consecutive consultations with no change in dose . ansfer of monitoring and prescribing to primary care is normally after at least 12 weeks, d when the patient's dose has been optimised, and with satisfactory investigation sults for at least 4 weeks.				
far Th Pr	The specialist will provide relevant age-appropriate information to the patient and their family/ carer about the risks and benefits of pharmacological treatment. The specialist will ensure that the patient has an adequate supply of medication. Prescribers should be familiar with the requirements of controlled drug legislation governing the prescription and supply of stimulants.				
GF	P prescribing responsibilities				
To Pr	accept shared care when patient is on a 'stable' dose and evidence of benefit is stated. prescribe treatment from the date specified by specialist. escribers should be familiar with the requirements of controlled drug legislation verning the prescription and supply of stimulants.				
In	dications for referral back to Specialist				
• • •	Common side effects for class of medication, not responsive to (temporary) dose reduction. Uncommon, severe or unexpected side effects; this includes newly arising or worsening pre-existing psychiatric co-morbidities. Lack of efficacy. If there are concerns or queries.				
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• • Fu 1.	Common side effects for class of medication, not responsive to (temporary) dose reduction. Uncommon, severe or unexpected side effects; this includes newly arising or worsening pre-existing psychiatric co-morbidities. Lack of efficacy. If there are concerns or queries. If there are concerns or queries. If there information and supporting documents National Institute for Health and Care Excellence (NICE) Guideline NG87. Attention deficit hyperactivity disorder: diagnosis and management. [Updated13 September				
• • Fu 1. 2.	Common side effects for class of medication, not responsive to (temporary) dose reduction. Uncommon, severe or unexpected side effects; this includes newly arising or worsening pre-existing psychiatric co-morbidities. Lack of efficacy. If there are concerns or queries. Inther information and supporting documents National Institute for Health and Care Excellence (NICE) Guideline NG87. Attention deficit hyperactivity disorder: diagnosis and management. [Updated13 September 2019]. Available from: Attention deficit hyperactivity disorder: diagnosis and management (nice.org.uk) British National Formulary for Children (BNFC). Attention deficit hyperactivity disorder, treatment summary. [Updated 28/02/24]. Available from: Attention deficit hyperactivity disorder, treatment summaries BNFC NICE Specialist Pharmacy Service. Considerations when prescribing modified-release methylphenidate. [Updated 23/11/23]. Available from: Considerations when prescribing modified-release methylphenidate – SPS - Specialist Pharmacy Service – The first				
• • • • • • • • • • • • • • • • • • •	Common side effects for class of medication, not responsive to (temporary) dose reduction. Uncommon, severe or unexpected side effects; this includes newly arising or worsening pre-existing psychiatric co-morbidities. Lack of efficacy. If there are concerns or queries. Inther information and supporting documents National Institute for Health and Care Excellence (NICE) Guideline NG87. Attention deficit hyperactivity disorder: diagnosis and management. [Updated13 September 2019]. Available from: Attention deficit hyperactivity disorder: diagnosis and management (nice.org.uk) British National Formulary for Children (BNFC). Attention deficit hyperactivity disorder, treatment summary. [Updated 28/02/24]. Available from: Attention deficit hyperactivity disorder, treatment summaries BNFC NICE Specialist Pharmacy Service. Considerations when prescribing modified-release methylphenidate. [Updated 23/11/23]. Available from: Considerations when prescribing				

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Date of Approval	Community Paediatrician, NCH&C (based at the NNUH). July 2024		
Reviewed by	Medicines Optimisation Team, NHS Norfolk & Waveney ICB.		
Last review date August 2022			
Date of next review	June 2026		

Appendix 1: Blood Pressure Centiles for Boys & Girls by Age and Height Percentile



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of action requirement for release/ of of modifiedsecond dose action (hours) administration release % peak (hours) (hours) **Modified-release tablets** Affenid XL tablets 22/78* 1 to 2 6 to 8 No 12 Concerta XL 22/78 6 to 8 1 to 2 12 No tablets 25/75 12 Delmosart tablets 1 to 2 6 to 8 No Matoride XL 22/78* 12 1 to 2 6 to 8 No tablets

1 to 2

Appendix 2: Comparison of modified-release methylphenidate products³.

Onset

Timing

6 to 8

Duration

12

Immediate-

25/75

Product

Xaggitin XL

tablets	23/13	1102	0100	12	NO
Xenidate XL tablets	22/78*	1 to 2	6 to 8	12	No
	Modi	fied-releas	e <u>capsules</u>	3	
Equasym XL capsules	30/70	1 to 2	4.5	8	Take before breakfast
Medikinet XL capsules	50/50	1 to 2	3 to 4	8	Take with food
Meflynate XL capsules	50/50	1 to 2	4	8	No
Metyrol XL capsules	50/50	1 to 2	4	8	No
*Manufacturers have reference product.	*Manufacturers have not provided exact IR/MR ratio but confirms bioequivalent to the reference product.				

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V10.2 For review June 2026

Food

No

Version	Date	Author / Editor	Status	Comment
10.0	April 2024	Medicines Optimisation Team	Draft	Document restarted on new template. Title changed from 'Stimulants for ADHD and related disorders in Children aged at least 6 years old & Adolescents' to 'Stimulants for Attention Deficit Hyperactivity Disorder (ADHD) in Children & Young People aged at leas 6 years old'. Addition of new products - Tranquilyn®, Affenid XL®, Meflynate XL®, and Metyrol XL®. Removed Elvanse Adult® formulation of Lisdexamfetamine from shared care as not licensed in children. Blood pressure data now Appendix 1. Comparisor of modified-release methylphenidate products now Appendix 2. Previous appendices on side effects removed as most up to date information can be found in BNF and SPC. Cost comparison table removed considering supply national issues. Updated supporting information, included reference to SPS guidance 'Considerations when prescribing modified-release methylphenidate'.
10.1	May 2024	Medicines Optimisation Team	Draft	Addition of further information about weight monitoring and link to RCPCH growth charts 'Height and weight to be plotted on growth chart. If concerns arise, or any significant changes from baseline, this should be discussed with the specialist; please see box 'When is further assessment required? RCPCH growth charts for

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				general advice.' Addition of advice from NICE regarding weight loss and growth; addition of strategies listed in NICE guidance.
10.2	June 2024	Medicines Optimisation Team	Final	Appendix 1 Blood pressure table replaced with PDF - Blood Pressure Centiles for Boys & Girls by Age and Height Percentile. Supported by TAG and MOPB – July 2024

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